

### Madison County Animal Feeding Operation Siting Matrix

Type		Animal Specific	All Livestock Facilities	Negative Scores for All Facilities	Special to Open Feedlots	Special to Confined Facilities	Score
<b>Animal Feeding Operation (when applicable)</b>							
all	1 to 300 head equivalent capacity		40				
	301 to 500 head equivalent capacity		40				
	501 to 999 head equivalent capacity		30				
	1,00 to 1,250 head equivalent capacity		20				
	1,251 to 1,500 head equivalent capacity		10				
	1,501 to 2,500 head equivalent capacity		5				
	2,501 or more head equivalent capacity		0				
<b>DEQ Permit</b>							
all	Has DEQ permit ( <del>construction</del> operational NPDES, Interim) in hand		50				
	Has letter from DEQ stating no permit is necessary		50				
	Has not yet applied to DEQ			-25			
	Has applied to and/or requested inspection from DEQ, but has not received permit			0			
<b>Operator</b>							
all	Operator has no history of verified DEQ violations in past five years		15				
all	Operator has no history of verified complaints filed in Madison County in past five years		15				
all	Owner lives on the site of the Livestock Feeding Operation		35				
all	Operator lives on the site of the Livestock Feeding Operation		20				
all	Owner or operator lives in Madison County		10				
all	Owner lives within the setback of the Livestock Feeding Operation		15				
all	Owner or operator does not live in Madison County			-50			
<b>Odor Emissions</b>							
con	The short side of the confinement barn is perpendicular to the closest neighbors					10	
con	The confinement is located as far as possible from the neighbor.					10	
all	No odor control measures.			-20			
con	Functioning biofilters on exhaust fans.					25	
all	Impermeable cover (outdoor storage)		25				
con	Oil sprinkling for dust reduction					5	
feedlot	Water sprinkling for dust reduction				5		
all	Separation of solids		10				
all	Other generally accepted odor reduction methods in place.		5				
<b>Manure Storage (multiplied by number of storage facilities)</b>							
all	Debris basin or holding pond or diversion terraces		0				
all	Single retention structure					0	
all	Lined lagoon		5				
all	Plastic lined lagoon		15				
all	Functioning anaerobic lagoon minimum 8 ft. deep		15				
all	Aerated manure storage structure(s)		20				
all	Geotextile cover on lagoon(s) (>2.4 mm thickness)		15				
all	Straw or natural manure crust cover 4-inch thick		15				
all	Straw or natural manure crust cover 8-inch thick		20				
all	Steel or concrete tank, above or below ground		30				
all	Stockpile, crusted		2				
all	Methane digester is used to generate energy from manure and remaining manure is surface applied.		20				
all	Methane digester is used to generate energy from manure and remaining manure is injected or incorporated.		30				
all	Debris basin, lagoon, or holding pond exceeds minimum storage criteria and has retention room for a 50 year storm				5		
all	Debris basin, lagoon, or holding pond exceeds minimum storage criteria and has retention room for a 100 year storm				15		
<b>Housing Type</b>							
Beef	Open lots	15					
Dairy	Free stall, deep pit; Loose housing, scrape	15					
Dairy	Tie stall, scrape	15					

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Type		Animal Specific	All Livestock Facilities	Negative Scores for All Facilities	Special to Open Feedlots	Special to Confined Facilities	Score
Chicken	Litter	15					
Chicken	Caged	5					
Turkey	Litter	15					
<b>Swine</b>							
Gestation	Deep pit, natural or mechanical ventilation	0					
	Pull plug, natural or mechanical ventilation	5					
Farrowing	Pull plug, natural or mechanical ventilation	10					
Nursery	Deep pit or pull plug natural or mechanical ventilation	0					
Finishing	Deep pit, natural or mechanical ventilation	5					
	Pull plug, natural or mechanical ventilation	7					
	Hoop barn, deep bedded, scrape; scrape	15					
	Loose housing, scrape; Open concrete lot, Cargill type (open front), scrape	10					
<b>Manure Application</b>							
all	No land application due to sale 100% of manure		25				
all	No land application due to sale 50% or more of manure		12				
all	No land application due to giving away 100% of manure		25				
all	No land application due to giving away 50% or more of manure		12				
feedlot	No land application of solids, solids separated and used for yard maintenance				15		
all	Livestock wastes collected in the facilities for confined livestock operations will be land applied onto application areas only on dewatering days at a rate to prevent a discharge from the facilities.				15		
all	Spreading without incorporation 80% or more of all included application areas			-10			
all	Injection or incorporation within 72 hours of application to 80% or more of all application areas		10				
all	Injection or incorporation within 2 hours of application to 80% or more of all application areas		25				
all	Vegetative buffers present on 75% natural surface drains on all application areas		5				
all	Vegetative buffers present on 100% of natural surface drains on all application areas		10				
all	Vegetative buffer of a minimum of 100 feet width between application fields and any <u>surface waters</u>		10				
all	No application will occur on highly erodable land as classified by the USDA NRCS.		10				
all	The <u>irrigation distribution system</u> is disconnected from the irrigation water source during livestock waste application			-10			
all	Additional separation distance, above minimum requirements, from manure application area to closest: Residence not owned by Feeding Operation owner, Hospital, Nursing Home, School, church, platted subdivision or park. Applies to 100% of all application ar						
	50 to 100 feet		2				
	101 to 500 feet		5				
	501 to 1,320 feet		7				
	1,321 to 2,640 feet		10				
	2,641 feet and greater		15				
all	Additional separation distance, above minimum requirements, from manure application area to areas of 20% or more slope. Applies to 100% of all application areas.						
	50 to 100 feet		2				
	101 to 500 feet		5				
	501 to 1,320 feet		7				
	1,321 to 2,640 feet		10				
	2,641 feet and greater		15				
all	Additional separation distance, above minimum requirements, from manure application area to closest surface waters. Applies to 100% of all						
	50 to 100 feet		2				
	101 to 500 feet		5				
	501 to 1,320 feet		7				
	1,321 to 2,640 feet		10				
	2,641 feet and greater		15				
Subtotal This Page							

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<b>Environmental Protection</b>							
all	Comprehensive Nutrient Management Plan (CNMP) has been submitted to Zoning Administrator		10				
all	Emergency Response Plan has been submitted to Zoning Administrator		10				
all	Operational and maintenance plan has been submitted to the Zoning Administrator		10				
all	Adoption and implementation of DEQ approved CNMP.		10				
all	Sludge management plan for holding ponds and lagoons has been submitted to the Zoning Administrator.		10				
all	Owner required by DEQ or EPA to install groundwater monitoring wells & report results to zoning administrator.		0				
all	Owner will voluntarily install groundwater monitoring wells & report results to zoning administrator.		15				
all	A DEQ permitted or other allowable open discharge system is utilized.		0				
all	An open discharge system is not utilized.		5				
all	When available, owner will give zoning administrator EPA Annual Report		10				
feedlot	Will maintain all ground surfaces within outside livestock pens to insure proper drainage of animal waste and storm or surface runoff in such a manner as to minimize manure from being carried into any roadway ditch, drainage area or onto a neighbor's prop				20		
all	Will not have any manure storage unit, lagoon, debris basin, holding pond, diversion terraces etc. or system constructed where the bottom of the unit or system is within ten feet (10') of the existing water table where the unit or system is to be constru		25				
Small	The facility is located on soils and/or constructed with materials and construction methods which will insure that percolation does not exceed the rate of 0.15 inches per day and is certified thereof by a registered professional engineer		25				
Medium and Large	The facility is located on soils and/or constructed with materials and construction methods which will insure that percolation does not exceed the rate of 0.08 inches per day and is certified thereof by a registered professional engineer		25				
<b>Closure</b>							
all	A Closure Plan has been submitted to the Zoning Administrator		10				
all	The producer/owner/operator or a certified financial institution has signed a statement agreeing to accept financial responsibility for cleanup if declared an environmental hazard by the State of Nebraska or EPA.		10				
all	An escrow account at \$100 per head equivalent (\$5,000 min., \$10,000 max.) has been established for cleanup if declared an environmental hazard by the State of Nebraska or EPA.		15				
all	A performance bond of \$10,000 per one-thousand head equivalent has been purchased to insure operation of the feeding operation.		35				
all	The producer/owner/operator does not take financial responsibility for cleanup in the case of closure of the operation.			-50			
<b>Traffic</b>							
all	Will be served by ingress and egress routes that will minimize traffic congestion or damage to roads and streets as determined by county highway superintendent.		10				
all	Will substantially increase traffic on gravel road as determined by county highway superintendent.			-10			
all	Located on oil or blacktop road with weight restrictions			-10			
all	Located within one-mile of farm to market road as determined by Madison County Highway Superintendent		5				
all	Truck route established without using any bridges or roads with seasonal or permanent weight restrictions		5				
all	Truck route established using bridges or roads with seasonal or permanent weight restrictions			-10			
all	Will not substantially increase traffic as determined by county highway superintendent.		10				
all	Producer will not use County Roads for travel to apply manure		10				
Subtotal This Page							

Type		Animal Specific	All Livestock Facilities	Negative Scores for All Facilities	Special to Open Feedlots	Special to Confined Facilities	Score
all	Producer has an agreement with the County to maintain or pay for road maintenance		25				
<b>Neighbors - Community Support</b>							
all	Tangible proof of communication with 100% of the property owners within a one mile radius.		25				
<b>Noise levels</b>							
all	Will not generate excessive noise as determined by the Zoning Administrator		10				
<b>Economic Impact Factors</b>							
all	Will increase property valuation as of CUP issue date 1 to 15%		5				
all	Will increase property valuation as of CUP issue date 16 to 35%		10				
all	Will increase property valuation as of CUP issue date 36 to 60%		15				
all	Will increase property valuation as of CUP issue date 61 to 85%		20				
all	Will increase property valuation as of CUP issue date 86 to 100%		25				
all	Will increase property valuation as of CUP issue date more than 100%		30				
all	Will purchase a minimum of 75% of feed from Madison County producers.		10				
all	Will create 1 to 3 new full-time or equivalent jobs		5				
all	Will create 4 to 9 new full-time or equivalent jobs		10				
all	Will create 10 or more new full-time or equivalent jobs		15				
<b>Landscape &amp; Aesthetic Appearance</b>							
all	Landscape plan submitted to zoning administrator.		10				
all	Visual barriers		10				
all	Lack of landscaping or <u>landscape plan</u>			-10			
con	Fans exhaust into vegetative or constructed barrier					10	
all	Site designed to facilitate clean water drainage away from buildings and manure storage.		10				
all	Truck turnaround		5				
all	Will be served with adequate utilities, access roads, drainage and other necessary facilities, infrastructure, or public services		25				
<b>Additional Setbacks</b>							
all	Additional separation distance, above minimum requirements, from proposed Livestock Feeding Operation to closest: Residence not owned by Feeding Operation owner, Hospital, Nursing Home, School, church, platted subdivision or park.						
	250 to 500 feet		2				
	501 to 750 feet		5				
	751 to 1,000 feet		7				
	1,001 to 1,250 feet		10				
	1,251 feet or more		15				
all	Additional separation distance, above minimum requirements, from proposed Livestock Feeding Operation to closest body of water:						
	250 to 500 feet		2				
	501 to 750 feet		5				
	751 to 1,000 feet		7				
	1,001 to 1,250 feet		10				
	1,251 feet or more		15				
all	Separation distance of 300 feet or more from the Livestock Feeding Operation to the nearest county, state or federal road.		15				
<b>Possible Points</b>			1466	-205	75	60	

**Total Score**

The above information is, to the best of my knowledge, true and accurate, and supporting documentation has been presented to the Zoning Administrator. It is understood and agreed that any error, misstatement or misrepresentation of fact, either with or w

Signature of applicant: \_\_\_\_\_ Date: \_\_\_\_\_

I have reviewed the matrix, verified the answers, and certified the score. Supporting documentation has been provided by the applicant.

Zoning Administrator: \_\_\_\_\_ Date: \_\_\_\_\_

**Passing score is 350 points**